Package-01 1. Construction of Govt School rooms, Palanahalli and Kattigenahalli Village in Ward No. 05 2. Improvements to roads and drains in Agarahara, Agarahara Layout and Surrounding area in Ward No. 05 3. Improvements to Roads and Drains in Kogilu Layout and Surrounding areas in Ward No. 05 4. Improvements to Roads and Drains at Tirumenahalli and Surrounding areas in Ward No. 05

AGENCY:- SHANKARAPPA (MESPC INFRA PROJECTS PRIVATE LIMITED)
Estimated cost: 21570310.62
Amount put to Tender as per Sanction : 2,32,95,935.40
Agreement No. EE/Project/AG No; 83/18-19, Date : 25/12/2019
Accepted Tendered Amount : 2,32,95,935.40
Head of Account :

EIRL -01 (PWD CSR 2016-17) & 2018-19

Sl.No.	Description	Unit	Qty	Rate	Amount	Whether the Item is alternative to the item in Tender or whether they are in lieu of some items approved in the accepted tender	Whether the Extra item is in the sanctioned Estimate	Whether the extra item is included in SR i/So if to the item of the schedule to given if not data sheets to be included	Remarks
E1	KSRRB M400-6.1. Construction of granular sub-base by providing close graded crushed stone aggregates of granite / trap / basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. - For Grading II Material. I.No 20.4.2 of S.R 2018-19	Cu-m	283.80	2398.42	680671.60	yes	No	(P.No.153 I.No. 20.5 of PW,P&IWTD S.R 2018-19)	
E2	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 I.No. 21.17.6 of PW,P&IWTD S.R 2018-19)	Cu-m	249.70	8245.37	2058868.89	yes	No	(P.No.160 I.No. 21.17.6 of PW,P&IWTD S.R 2018-19)	
E3	KSRB 9.4-2 : Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Item No - 9.11	Cu-m	0.50	119970.07	59985.04	yes	No	Page No 51, Item No - 9.11	

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E4	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality	Sqm	15.70	4665.60	73249.92	yes	No	(P.No.60, I.No.9.94 of PWD SR 2016-17)	
E5	Providing and fixing M.S.grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifictions. Specification No. KBS 7.12 (Consider 21 Kg/ Sqm)	Sq-m	630.00	90.98	57317.40	yes	No	(P.No. 32, I.No. 7.9 of PWD SR 2015-16)	
E6	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal	Sqm	32.40	4546.63	147310.81	yes	No	(P.No. 33, I.No. 7.10.2 of PWD SR 2016-17	

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E7	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.(Page No : 300, Item No : 38.30 of PWDSR 2016-17	Sq-m	24.75	898.13	22228.72	yes	No	(Page No : 300, item No : 38.30 of PWDSR 2016-17	
E8	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266 I.No.37.4 of PW,P&IWTD SR of 2016-17	Mtrs	32.50	377.91	12282.08	yes	No	(P.No.266 I.No.37.4 of PW,P&IWTD SR of 2016-17	
E9	Providing vitrified tiles 60 x 60cms of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification. (Page No : 109, item No :14.45)	sq-m	103.15	1297.04	133794.10	yes	No	(Page No : 107, item No :14.45)	
E10	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. - for Ceramic Tiles 400 x 400mm on a bed of 20mm thick (Page No : 108, item No :14.36.3)	sq-m	9.88	1374.02	13578.75	yes	No	(Page No : 108, item No :14.36.3)	
E11	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locl<ing arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) Specification No.KBS 13.22 (P.No.96, I.No.13.78 of PW, P&IWTD S.R 2016-17)	sq-m	1.00	9875.91	9875.91	yes	No	(P.No.96, I.No.13.78 of PW, P&IWTD S.R 2016-17)	
E12	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 20mm nominal OD pipes. (P.No.99, I.No. 13.86.2 of KPWD SR 2016-17)	Mtrs	150.00	244.94	36741.00	yes	No	(P.No.99, I.No. 13.86.2 of KPWD SR 2016-17)	

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E13	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.) - 25mm nominal OD pipes(P.No.99, I.No. 13.86.3 of KPWD SR 2016-17)	Mtrs	150.00	291.60	43740.00	yes	No	(P.No.99, I.No. 13.86.3 of KPWD SR 2016-17)	
E14	KSRB13-8.5 : Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kgf/sq.cm working pressure 110mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges. HOM of equipments and testing complete as per specifications. Specification No.KBS 13.2.15.1 / 13.9(P.No.96, I.No.13.70.4 of PW, P&IWTD S.R 2016-17)	Mtrs	50.00	415.24	20762.00	yes	No	(P.No.96, I.No.13.70.4 of PW, P&IWTD S.R 2016-17)	
E15	KSRB 11-15.3 : Providing and fixing 453x357mm dia rectangular shape mirror with plastic moulded frame of approved make and shade with 6mm thick hard board backing including cost of materials, labour complete as per specifications. (P.No.84, I.No. 12.41 of KPWD SR 2016-17)	Unit	2.00	1376.35	2752.70	yes	No	(P.No.84, I.No. 12.41 of KPWD SR 2016-17)	
E16	Providing and fixing 7.5 cms to 15.00 cms dia NP grating 100 mm dia. (P.No. 90, I.No. 12.111 of KPWD SR 2016-17)	Each	20.00	186.62	3732.40	yes	No	(P.No. 90, I.No. 12.111 of KPWD SR 2016-17)	
E17	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). - 10cms x 7.5cms (P.No. 90, I.No. 12.113.1 of KPWD SR 2016-17)	Each	10.00	291.60	2916.00	yes	No	I.No. 12.113.1 of KPWD SR 2016-17)	
E18	KSRB13-6.1-1 : Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (P.No. 93, I.No. 13.23 of KPWD SR 2016-17)	Each	10.00	269.44	2694.40	yes	No	(P.No. 93, I.No. 13.23 of KPWD SR 2016-17)	
E19	KSRB13-6.3-3 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3. (P.No.94/ I.No. 13.34 of KPWD SR 2016-17)	Each	15.00	699.84	10497.60	yes	No	(P.No.94/ I.No. 13.34 of KPWD SR 2016-17)	
E20	KSRB 11 -6 : Providing and fixing white vitreous china clay, water closet European type (Pedestal type, S-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre white glazed I vitreous china clay low level, flushing cistern (all are approved make) with fittings, C.I I M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.(P.No.79 I.No.12.5 of KPWD SR 2016-17)	Each	2.00	5983.63	11967.26	yes	No	(P.No.79 I.No.12.5 of KPWD SR 2016-17)	

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E21	KSRB 11-11.1 : Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.82 I.No.12.23 of PWDSR 2016-17)	Unit	4.00	4532.63	18130.52	yes	No	(P.No.82 I.No.12.23 of PWDSR 2016-17)	
E22	KSRB 11-2 : Providing and fixing white vitreous china clay, water closet Orissa pattern of size 580 x 440mm with integral type footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No. 79, I.No.12.2 of KPWD SR 2016-17)	Pan	3.00	5057.51	15172.53	yes	No	(P.No. 79, I.No.12.2 of KPWD SR 2016-17)	
E23	KSRB 11-7.1 : Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I / M.S brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11 (P.No.80 I.No.12.7 of PWDSR 2016-17)	Unit	3.00	3460.71	10382.13	yes	No	(P.No.80 I.No.12.7 of PWDSR 2016-17)	
E24	KSRB 15-17.4 : Applying priming coat over new wood surface and / or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. (P.No.119, I.No.15.58 of PW, P&IWTD SR 2016-17)	Sqm	15.50	36.16	560.48	yes	No	(P.No.119, I.No.15.58 of PW, P&IWTD SR 2016-17)	
E25	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.(Page. No. 121 Item No. 15.60.1 SR 2016-17)	sqm	15.50	97.98	1518.69	yes	No	(Page. No. 121 Item No. 15.60.1 SR 2016-17)	
E26	SOLID PVC DOOR FRAME Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge.	Sqm	7.88	613.53	4831.55	yes	No	(Page. No. 57 Item No. 9.84 SR 2016-17)	

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E27	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges.	sqm	7.50	3724.32	27932.40	yes	No	(Page. No. 57 Item No. 9.83 SR 2016-17)	
E28	Supplying of 1440rpm Heavy Duty Exhaust fan with braket blades suitable to operate an 230V 50HZ, AC Supply complete- 15" Sweep (450mm)- Group A	Each	2.00	4745.52	9491.04	yes	No	(Page. No. 57 Item No. 9.2.3 Electrical SR 2014-15)	

Total Rs 3492985.91

Amount Put To Tender 23295935.37

Percentage excess over the Amount put to Tender =	EIRL Amount	3492985.91	14.99	% age
	Amount put to tender	23295935.37		

Contractor

Assistant Engineer

Assistant Executive Engineer 30/09/2019
Yalahanka Project Division, Byatarayanapura

Executive Engineer
Yalahanka Project Division, Byatarayanapura

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Chief Engineer
Yalahanka Project Division, Byatarayanapura

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